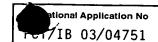
(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. | | | |
|--|---|-------------------------------------|-------------------|---|
| International application No. | International filing date (day/r | month/year) (Ea | rliest) Priority | Date (day/month/year) |
| PCT/IB 03/04751 | 27/10/20 | 003 | 0.8 | 3/11/2002 |
| Applicant KONINKLIJKE PHILIPS ELECTE | RONICS N.V. | | | |
| This International Search Report has been according to Article 18. A copy is being tra | n prepared by this International ansmitted to the International Bu | Searching Authority a ureau. | and is transmitt | ted to the applicant |
| | of a total of4 a copy of each prior art docum | _ sheets. ent cited in this report. | | |
| Basis of the report a. With regard to the language, the language in which it was filed, unle | international search was carried ess otherwise indicated under t | dout on the basis of th | ne internationa | I application in the |
| Authority (Rule 23.1(b)). b. With regard to any nucleotide and was carried out on the basis of the contained in the internation | e sequence listing : nal application in written form. | closed in the internation | | |
| | rnational application in compute this Authority in written form. | er readable form. | | |
| furnished subsequently to this Authority in computer readble form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the | | | | |
| international application as | sequently turnished written seq s filed has been furnished. | uence listing does not | t go beyond th | e disclosure in the |
| the statement that the info furnished | rmation recorded in computer r | eadable form is identic | cal to the writte | en sequence listing has been |
| | nd unsearchable (See Box I). | | | |
| 3. Unity of invention is lack | king (see Box II). | | | |
| 4. With regard to the title, | | | | |
| the text is approved as sub | omitted by the applicant. | | | |
| X the text has been established by this Authority to read as follows: | | | | |
| · IEEE 802.11E MAC SIGNA | LING TO SUPPORT QOS | 5 | | |
| 5. With regard to the abstract, X the text is approved as subthe text has been establish within one month from the | omitted by the applicant. ned, according to Rule 38.2(b), date of mailing of this internatio | by this Authority as it a | appears in Box | t III. The applicant may, s to this Authority. |
| 6. The figure of the drawings to be published. | shed with the abstract is Figure | No. | 1 | |
| X as suggested by the applic | | | | None of the figures. |
| because the applicant faile | | | | |
| because this figure better o | cnaracterizes the invention. | | | |





A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L12/28 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

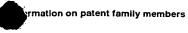
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | |
|--|---|-----------------------|--|--|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. | | |
| X | SHANKAR S ET AL: "QoS Signaling for Parameterized Traffic in IEEE 802.11e Wireless LANs" ADVANCED INTERNET SERVICES AND APPLICATIONS. FIRST INTERNATIONAL WORKSHOP, AISA 2002, 1 - 2 August 2002, pages 67-83, XP001188291 Seoul, South Korea ISBN: 3-540-43968-4 paragraph '0004! - paragraph '0005! | 1-24 | | |
| P,X | EP 1 309 139 A (TEXAS INSTRUMENTS INC) 7 May 2003 (2003-05-07) paragraph '0009! paragraph '0021! paragraph '0031! - paragraph '0040! | 1-24 | | |

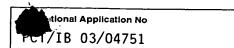
| Further documents are listed in the continuation of box C. | Patent family members are listed in annex. |
|---|---|
| Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family |
| Date of the actual completion of the international search 1 March 2004 | Date of mailing of the international search report 16/03/2004 |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Authorized officer Tous Fajardo, J |



tional Application No PC1/IB 03/04751

| - · · · | | PCT/IB 03/04751 |
|------------|--|-----------------------|
| | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | |
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| P,X | WO 03 043266 A (KONINKL PHILIPS ELECTRONICS NV) 22 May 2003 (2003-05-22) page 14, line 24 -page 15, line 34 | 1-24 |
| A | JIN-MENG HO: "Some Considerations on MLME and MAC SAPs, Access Mechanisms, and Frame Types and Formats for 802.15.3 MAC" IEEE P802.15 WIRELESS PERSONAL AREA NETWORKS SUBMISSION, 'Online! - December 2000 (2000-12) pages 1-16, XP002271943 Retrieved from the Internet: <url:http: 00405r0p802-15_tg3-some-mac-sublayer-considerations.doc="" 15="" 2001="" 802="" grouper.ieee.org="" groups="" jan01="" pub=""> 'retrieved on 2004-02-27! the whole document</url:http:> | 1-24 |
| A | MANGOLD S ET AL: "IEEE 802.11e - fair resource sharing between overlapping basic service sets" 13TH IEEE INTERNATIONAL SYMPOSIUM ON PERSONAL INDOOR AND MOBILE RADIO COMMUNICATIONS. PIMRC 2002, vol. 1, 15 September 2002 (2002-09-15), pages 166-171, XP010614208 the whole document | 1-24 |
| A | MANGOLD S ET AL: "IEEE 802.11e Wireless LAN for Quality of Service" PROC. EUROPEAN WIRELESS 2002, 'Online! - February 2002 (2002-02) pages 1-8, XP002271944 Florence, Italy Retrieved from the Internet: <url:http: 1687308="" 26429="" 6%2c537394%2c1%2c0.25%2cdownload="" cache="" citeseer.nj.nec.com="" cs="" http:="" http:zszzszwww.eecs.umich.eduzsz%7eshchoizsz="" ieee-e-wireless-lan.pdf="" my_papers_publishedzszconferenceszsz02-ew.="" papers="" pdf="" rd=""> 'retrieved on 2004-02-27! the whole document</url:http:> | 1-24 |





| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|--|---|------------------|----------|------------------------------|--------------------------|
| EP 1309139 | Α | 07-05-2003 | US EP | 2003081547 A1 1309139 A1 | 01-05-2003 07-05-2003 |
| WO 03043266 | Α | 22-05-2003 | US WO | 2003093526 A1 03043266 A1 | 15-05-2003 22-05-2003 |

From the INTERNATIONAL SEARCHING AUTHORITY

To:

KONINKLIJKE PHILIPS ELECTRONICS

N.V

Attn. Kraus, Robert P.O. Box 3001

Briarcliff Manor, NY 10510-8001

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

| UNITED STATES OF AMERICA | |
|---------------------------------------|---|
| | Date of mailing (day/month/year) 16/03/2004 |
| Applicant's or agent's file reference | |
| phus020430WO | FOR FURTHER ACTION See paragraphs 1 and 4 below |
| International application No. | International filing date |
| PCT/IB 03/04751 | (day/month/year) 27/10/2003 |
| Applicant | |
| KONINKLIJKE PHILIPS ELECTRONICS N.V. | |
| | |

| 1. X | The applicant is hereby notified that the International Search Report has been established and is transmitted herewith. |
|--------------|---|
| , | Filing of amendments and statement under Article 19: |
| | The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): |
| | When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. |
| | Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35 |
| | For more detailed instructions, see the notes on the accompanying sheet. |
| 2. | The applicant is hereby notified that no International Search Report will be established and that the declaration and that the declaration and the declaration are declaration are declaration and the declaration are declaration are declaration and the declaration are declaration are declarated as declarated |
| | ်က |
| з. 🗌 | With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that |
| | the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. |
| | no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. |
| 4. Furti | ner action(s): The applicant is reminded of the following: |
| If the | tly after 18 months from the priority date, the international application will be published by the International Bureau. ne applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the prity claim, must reach the International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the international publication. |
| Withi wis | n 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant hes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). |
| bef | n 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase ore all designated Offices which have not been elected in the demand or in a later election within 19 months from the prity date or could not be elected because they are not bound by Chapter II. |

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

Fax: (+31-70) 340-3016

European Patent Office, P.B. 5818 Patentlaan NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Authorized officer

Audrey Rummery



These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

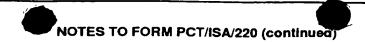
Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

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The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed:
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

